Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-63. (Canceled)
- 64. (Currently Amended) An isolated Isolated heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase catalytic (endo-β-D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein including consists essentially of a polypeptide at least 90% 100% homologous to SEQ ID NO: 10 or to a portion thereof, said protein being capable of eliciting an anti-heparanase antibody.
- 65. (Currently Amended) A pharmaceutical composition-comprising, as an active ingredient, consisting essentially of the isolated heparanase protein of claim 64, and a pharmaceutically acceptable carrier.
- 66. (Currently Amended) A preparation comprising a-protein molecules, wherein all protein molecules in said preparation together define a protein component, said protein component consisting essentially of heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase (endo-β-D-glucuronidase) catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein including consists essentially of a polypeptide at least 90%-70% homologous to SEQ ID NO: 10 or to a portion thereof.
- 67. (Previously Presented) The preparation of claim 66, wherein said polypeptide is characterized by being recombinant.
 - 68-70. (Canceled)
- 71. (Currently Amended) An isolated Isolated heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase catalytic (endo-β-D-

<u>wherein</u> said protein <u>includes</u> a polypeptide at least 95% 70% homologous to SEQ ID NO: 10 or a portion thereof, said protein being capable of eliciting an anti-heparanase antibody.

- 72. (Currently Amended) A pharmaceutical composition comprising, as an active ingredient, consisting essentially of the isolated heparanase protein of claim 71, and a pharmaceutically acceptable carrier.
 - 73-75. (Canceled)
- 76. (Currently Amended) A recombinant Recombinant heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase catalytic (endo-β-D-glucuronidase) activity or being cleavable so as to acquire said heparanase catalytic activity, said protein being purified close to homogeneity and wherein said heparanase protein including consists essentially of a polypeptide at least 90%-70% homologous to SEQ ID NO: 10 or to a portion thereof and is purified close to homogeneity.
- 77. (Currently Amended) The protein of claim 76, wherein said heparanase protein includes consists essentially of a polypeptide at least 95% homologous to SEQ ID NO: 10 or to a portion thereof.
- 78. (Currently Amended) A pharmaceutical composition-comprising, as an active ingredient, consisting essentially of the isolated-recombinant heparanase protein of claim 76, and a pharmaceutically acceptable carrier.
 - 79. (Canceled)
- 80. (New) The protein of claim 64, wherein said heparanase protein is recombinant.

- 81. (New) The protein of claim 64, wherein said heparanase protein consists essentially of a polypeptide at least 80% homologous to SEQ ID NO: 10 or to a portion thereof.
- 82. (New) The protein of claim 64, wherein said heparanase protein consists essentially of a polypeptide at least 90% homologous to SEQ ID NO: 10 or to a portion thereof.
- 83. (New) The protein of claim 64, wherein said heparanase protein consists essentially of a polypeptide at least 95% homologous to SEQ ID NO: 10 or to a portion thereof.
- 84. (New) The protein of claim 64, wherein said heparanase protein consists essentially of SEQ ID NO: 10 or a portion thereof.
- 85. (New) The pharmaceutical composition of claim 65, consisting of said isolated heparanase protein and said pharmaceutically acceptable carrier.
- 86. (New) The preparation of claim 66, wherein said heparanase protein consists essentially of a polypeptide at least 80% homologous to SEQ ID NO: 10 or to a portion thereof.
- 87. (New) The preparation of claim 66, wherein said heparanase protein consists essentially of a polypeptide at least 90% homologous to SEQ ID NO: 10 or to a portion thereof.
- 88. (New) The preparation of claim 66, wherein said heparanase protein consists essentially of a polypeptide at least 95% homologous to SEQ ID NO: 10 or to a portion thereof.
- 89. (New) The preparation of claim 66, wherein said heparanase protein consists essentially of SEQ ID NO: 10 or a portion thereof.

- 90. (New) The preparation of claim 66, wherein said protein component consists of said heparanase protein.
- 91. (New) The protein of claim 71, wherein said heparanase protein is recombinant.
- 92. (New) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.
- 93. (New) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.
- 94. (New) The protein of claim 71, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.
- 95. (New) The protein of claim 71, wherein said heparanase protein includes SEQ ID NO: 10.
- 96. (New) The pharmaceutical composition of claim 72, consisting of said isolated heparanase protein and said pharmaceutically acceptable carrier.
- 97. (New) A preparation comprising protein molecules, wherein all protein molecules in said preparation together define a protein component, said protein component consisting essentially of heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10.
- 98. (New) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.
- 99. (New) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

- 100. (New) The preparation of claim 97, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.
- 101. (New) The preparation of claim 97, wherein said heparanase protein includes SEQ ID NO: 10.
- 102. (New) The preparation of claim 97, wherein said protein component consists of said heparanase protein.
- 103. (New) The protein of claim 76, wherein said heparanase protein consists essentially of a polypeptide at least 80% homologous to SEQ ID NO: 10 or to a portion thereof.
- 104. (New) The protein of claim 76, wherein said heparanase protein consists essentially of a polypeptide at least 90% homologous to SEQ ID NO: 10 or to a portion thereof.
- 105. (New) The protein of claim 76, wherein said heparanase protein consists essentially of SEQ ID NO: 10 or a portion thereof.
- 106. (New) The pharmaceutical composition of claim 78, consisting of said recombinant heparanase protein and said pharmaceutically acceptable carrier.
- 107. (New) Recombinant heparanase (endo-β-D-glucuronidase) protein, said heparanase protein having heparanase catalytic activity or being cleavable so as to acquire said heparanase catalytic activity, wherein said heparanase protein includes a polypeptide at least 70% homologous to SEQ ID NO: 10 and is purified close to homogeneity.
- 108. (New) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 80% homologous to SEQ ID NO: 10.
- 109. (New) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 90% homologous to SEQ ID NO: 10.

- 110. (New) The protein of claim 107, wherein said heparanase protein includes a polypeptide at least 95% homologous to SEQ ID NO: 10.
- 111. (New) The protein of claim 107, wherein said heparanase protein includes SEQ ID NO: 10.
- 112. (New) A pharmaceutical composition consisting essentially of the recombinant heparanase protein of claim 76, and a pharmaceutically acceptable carrier.
- 113. (New) The pharmaceutical composition of claim 112, consisting of said recombinant heparanase protein and said pharmaceutically acceptable carrier.